

# INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/AU 98/00326

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>																						
Int Cl <sup>B</sup> : C03C 25/02																						
According to International Patent Classification (IPC) or to both national classification and IPC																						
<b>B. FIELDS SEARCHED</b>																						
Minimum documentation searched (classification system followed by classification symbols) C03C 25/02, 25/04																						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched AU:IPC as above																						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT: ZnO, ZINC:																						
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>																						
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.																				
X	US 4790625 A (BISWAS et al.) 13 December 1988 See column 3 line 42 to column 5 line 50 and figure 1.	1, 6-11																				
X	US 4592932 A (BISWAS et al.) 3 June 1986 See column 3 line 4 to column 5 line 56 and figures 1-3.	1, 6-11																				
X	US 4575463 A (BISWAS et al.) 11 March 1986 See column 3 line 32 to column 5 line 34 and figure 1.	1, 6-11																				
<input type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex																						
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A"</td> <td>document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T"</td> <td>later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E"</td> <td>earlier document but published on or after the international filing date</td> <td>"X"</td> <td>document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L"</td> <td>document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y"</td> <td>document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O"</td> <td>document referring to an oral disclosure, use, exhibition or other means</td> <td>"&amp;"</td> <td>document member of the same patent family</td> </tr> <tr> <td>"P"</td> <td>document published prior to the international filing date but later than the priority date claimed</td> <td></td> <td></td> </tr> </table>			"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E"	earlier document but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family	"P"	document published prior to the international filing date but later than the priority date claimed		
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"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family																			
"P"	document published prior to the international filing date but later than the priority date claimed																					
Date of the actual completion of the international search 2 July 1998		Date of mailing of the international search report -7 JUL 1998																				
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200 WODEN ACT 2606 AUSTRALIA Facsimile No.: (02) 6285 3929		Authorized officer  J. DEUIS Telephone No.: (02) 6283 2146																				

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## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See attached sheet.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-12

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

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### Box II continued

The International application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are two inventions:

1. Claims 1-12 are directed to a substantially continuous circumferential coating on a non-planar substrate utilising a substantially non directional deposition technique and a substantially static substance deposition geometry to deposit the coating. The coating method is considered to be the first "special technical feature".
2. Claims 13-15 are directed to an acusto-optical phase modulator characterised by having a phase modulation efficiency range. The modulator is considered to be the second separate "special technical feature".

Since the above mentioned groups of claims do not share either technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the International application does not relate to one invention as a single inventive concept.

# **INTERNATIONAL SEARCH REPORT** **Information on patent family members**

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
US	4592932	AU	43465/85	EP	166649	ES	544562
		ES	8700451	JP	61020915	US	4592932
		CN	85104312	CN	85104315	US	4575463
		US	4750806	US	4790625	EP	95729
		JP	59045945	ZA	8303150	US	4518628
US	4575463	AU	43465/85	EP	166649	ES	544562
		ES	8700451	JP	61020915	US	4592932
		CN	85104312	CN	85104315		
		US	4750806	US	4790625	EP	95729
		JP	59045945	ZA	8303150	US	4518628
US	4790625	EP	95729	JP	59045945	ZA	8303150
		US	4518628	US	4750806	AU	43465/85
		EP	166649	ES	544562	ES	8700451
		JP	61020915	US	4575463	US	4592932
		CN	85104312	CN	85104315		
END OF ANNEX							